

EENS Job Risk Assessment

Name(s) of Risk Team Members:	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Magnetic Field and Non-Ionizing Radiation (RF, Microwave, UV,IR) Job Number or Job Identifier: EENS-JRA-015 JRA Date:	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description:	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional):	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Approved by: Date: Rev. #: Draft						
Stressors (if applicable, please list all):		Reason for Revision (if applicable):			Comments:	

				Before Additional Controls							After Additional Controls					
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Use of Compressed Gases	(See working with compressed gases JRA)															
Working With Cryogenics	(See working with cryogenics JRA)															

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Electrical circuits for outside use	Exposure to uncontrolled elements causing increased potential for equipment failure, electric shock, or electrocution	Training, testing, ground fault interrupter circuits in sheltered location														
Outdoor work	General Environmental hazards	Training, appropriate PPE & clothing, safety notice provided to participants prior to work														
	Tick Bites	Training, appropriate PPE & clothing, safety notice provided to participants prior to work														
Exposure to cold conditions	Frostbite	Training, proper clothing & PPE, limited shifts in excessively harsh conditions, safety notice provided to participants prior to work														
	Hypothermia	Training, proper clothing & PPE, limited shifts in excessively harsh conditions, safety notice provided to participants prior to work														

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Exposure to hot & dry conditions	Dehydration	Training, proper clothing & PPE, limited shifts in excessively harsh conditions, sufficient liquid intake, shade, safety notice provided to participants prior to work														
	Heat exhaustion	Training, proper clothing & PPE, limited shifts in excessively harsh conditions, sufficient liquid intake, shade, safety notice provided to participants prior to work														
	Heat stroke	Training, proper clothing & PPE, limited shifts in excessively harsh conditions, sufficient liquid intake, shade, safety notice provided to participants prior to work														
Working from towers	Slip/Fall	Training (fall protection), appropriate PPE, tower OSHA compliant, toe boards, guard-rails and mid-rails														
Working in remote locations	No immediate contact in event of accident	Training, agreed Interval contact until work is finished														

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	Confined space oxygen deficiency/displacement	Training, agreed Interval contact until work is finished, adequate ventilation & air exchanges														
Working in Static Magnetic Fields	Generation of projectiles	Training, safety procedures prior to activation, housekeeping														
	Effects on implants	Medical authorization, training														
Noise From Equipment & Environment	Auditory damage	Training, appropriate PPE, limited exposure time, noise monitoring equipment, noise dampening device														
Working with chemicals (see	Exposure to spills	Training, SBMS, appropriate PPE, spill kit														
	Exposure to aerosols & fumes	Training, SBMS, appropriate PPE, ventilation														
Working with field-deployed radiation generating devices	UV Light exposure	Training, appropriate PPE, interlock														
Working with Sealed Sources	Radiation exposure	Training, secured, appropriate PPE, film badge/dosimeter														
Maintenance of energized instruments	Instrument failure causing injury	Training, qualified persons, standard operating procedure, appropriate PPE														

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	Electric Shock	Training, qualified persons, standard operating procedure, appropriate PPE														
	Electrocution	Training, qualified persons, standard operating procedure, appropriate PPE														
	Injury from moving parts, nip point	Training, qualified persons, standard operating procedure, appropriate PPE														
Working w/portable, hi-power equipment	Instrument failure causing injury	Training, testing, appropriate PPE														
	Electric shock	Training, testing, appropriate PPE														
	Electrocution	Training, testing, appropriate PPE														
	Injury from moving parts, nip point	Training, procedures, appropriate PPE														
Working around overhead cranes	Moving arm	Training, cordoned-off area, appropriate PPE														
	Falling debris	Training, cordoned-off area, appropriate PPE														
	Electrocution from nearby power lines coming in contact with crane	Training, cordoned-off area, ensure no power source nearby to make crane a conductor, appropriate PPE														

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Lasers (refer to working with lasers JRA)																
Working on ocean-going vessels	Fire	Training, fire safety equipment, life safety equipment/PPE														
	Slips/Falls															
Transport of Sealed Sources	Radiation release/exposure	Training, monitoring, appropriate PPE, secured to transport device														
Transport of Chemicals	Chemical Spill/Contamination	Training, MSDS, spill kit, secured to transport device, appropriate PPE														
Transport of Hazardous Waste	Release/contamination	Training, MSDS, secondary containment, secured to transport device, appropriate PPE														
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate						61 to 80 Substantial			81 or greater Intolerable				